REMA

Lviv factory of radio-electronic
medical equipment

WI-FI | GPS | voice calls | SMS | TCP/IP protocols | GSM service

CURRENT-BASED DEFIBRILLATOR-MONITOR
REMA - 21

In this project we have invented defibrillator-monitor which provides the highest medical efficiency of defibrillation, according to the standarts of the requirements of American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science (2010).

CE

qualityaustria
SYSTEM CERTIFIED
EN ISO 13485:2012 No.00246/0

IQNet
THE INTERNATIONAL CERTIFICATION NETWORK

www.rema.com.ua

TECHNICAL DATA

Current Based Biphasic Defibrillator-Monitor REMA - 21

Equipped with ability to select defibrillation dose effect in amperes (technology Current-Based).

Stability of the selected current dose pulse reduces the number of ineffective attempts at defibrillation and cardioversion at energies less than 200 J discharge (40. resistance).

The use of innovative technologies and sustainable design provided the opportunity to implement the recommendations "2010 AMERICAN HEART ASSOCIATION GUIDELINES FOR CARDIOPULMONARY RESUSCITATION AND EMERGENCY CARDIOVASCULAR CARE SCIENCE

Part 6: Electrical Therapies» in parts «Current-Based Defibrillation» and «Electrode size».

General	
Modes of operation	AED mode, manual mode, asynchronus and synchronus defibrillation per paddles or self-adhesive electrodes, cardioversion mode, pacer mode, service mode
Defibrillator Module	
Manual and cardioversion mode	
Impulse shape	Biphasic, Current Based
Energy levels	6J/6A, 11J/8A, 22J/11A, 45J/16A, 65J/20A, 100J/25A, 150J/32A, 200J/40A, (360J/40A. optional)
Charge time	<6s for 360J
Cardioversion	Manual activation of the cardioversion via the SYNC button defibrillation via paddles as vell as self-adhesive electrodes
AED mode	
Electrodes type	disposable
Impulse type	biphasic current based with patient's impedance compensation
Monitor module	
Archive	6h
Events archive	500
Alarms for all parameters	
ECG module	
Leads	One channel
CMMR ratio	>100 dB
Frequency range:	
Diagnotic	0.05 to 100Hz
Monitoring	0.5 to 40Hz
Paddles	1 to 25Hz
Sensitivity	2.5 – 20 mm/mV
HR range	15-300 bpm
QRS signaling	acoustic and optical
	Input protected against defibrillator and high frequency disturbance
Pacer module	
Impulse shape	monophasic
Mode	on demand and fixed-rate
Pacing rate	30 to 180 1/min
Monitor	TFT-LCD colour, 480 x 272 pixels
Data management	Archive defibrillation actions at internal memory storage with the ability to output reports to PC
Transmission	Wi-fi / 3G (optional)
Power supply	AC power 220V, 12V (optional) Rechargeable battery
Testing	Programmable self-test of the device with a recording time and test results and voice message about the results of the last self-test when you turn on power.
Weight	3,5 kg, size 246x270x83 mm
	According with IEC 60601-2-4 International standart ISO 13485

THE ELABORATION OF HIGH EFFECTIVE DEVICE

The most important fact defibrillation of heart is electrical current which passes through the myocardium of the heart. We have decided to invent the new generation of this device.

Remote diagnostic service

Device will have remote diagnostic service to manage different parameters of device and diagnosis status of this device. Device has few protections mode: self-test mode, block mode if wrong dose is selected.

Quasi-sinusoidal biphasic pulse

Use quasi-sinusoidal biphasic pulse allows the patient to survive on the energy of no more than 200 Joules without damaging the patient's heart, and ensures the effectiveness of treatment for shock and chronic disorders of heart rhythm at no less than 90-95%.

Mode

Device has few modes: adults mode, children's mode and AED modes (Automatic External Defibrillation).

Memory

Internal memory of the device has enough capability to keep voice (video) files which can be used for operator navigation or call's communication.

Zavodska Str. 31,Lviv, 79019, Ukraine Phone. +38 (032) 258-92-40;
Fax: +38 (032) 252-05-22;E-mail: office@rema.com.ua/rema.lviv@gmail.com